



Safety Data Sheet

Report No.: G21-B0483-1

Product Name : Li-ion Pouch battery
Model/Type : PL 652035
Applicant : Shenzhen BatterPower Battery
CO.,LTD

CESI (Guangzhou) Standards & Testing Institute Co., Ltd





Safety Data Sheet

SECTION 1. CHEMICAL AND COMPANY IDENTIFICATION

Product identifier

Product Name Li-ion Pouch battery
Product model(s)/ Type PL 652035, 3.7V, 500mAh, 1.85Wh

Recommended use of the chemical and restrictions on use

Recommended Use LITHIUM ION BATTERIES
Uses advised against No information available

Details of the supplier of the safety data sheet

Initial supplier identifier Shenzhen BatterPower Battery CO.,LTD
Address No. 11 Bldgs, Tongfucun Industrial zone, Shiao, Dalang, Longhua New, District, Shenzhen, China.
Telephone 86-0755-28078088
E-mail Cs03@batterpower.com.cn

Emergency telephone number

Company Emergency Phone Number 86-0755-28078088

Tested by: Dai Jie **Date:** 2021.06.10

Checked by: Xiong Xu **Date:** 2021.06.10

Approved by: Huang Jun King **Date:** 2021.06.10

**SECTION 2. HAZARDS IDENTIFICATION****Classification**

The chemical is not considered hazardous category according with GHS unless ruptured, considered hazard class 9 according with UN Model Regulations, Manual of Test and Criteria.

The battery has passed the test items of UN Model Regulations, Manual of Test and Criteria Section UN38.3

GHS Label elements, including precautionary statements

This product is an article which contains a chemical substance. Safety information is given for exposure to the article as solid. Intended use of the product should not result in exposure to the chemical substance, This is a battery. In case of rupture: the above hazards exist.

Danger**Hazard statements**

If battery ruptured, then:

Causes skin irritation

Causes serious eye damage

Suspected of causing cancer

Causes damage to organs through prolonged or repeated exposure

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing

Immediately call a POISON CENTER or doctor

Skin

IF ON SKIN: Wash with plenty of water and soap

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

No information available

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Substance**

Not applicable.

Mixture

Chemical name	CAS-No	Percent
Lithium Cobalt Oxide	12190-79-3	25~40
Aluminum	7429-90-5	10~40
Graphite	7782-42-5	10~20



Copper	7440-50-8	5~15
Organic electrolyte	--	10~20
Polyvinylidene fluoride resin	24937-79-9	<1

SECTION 4. FIRST AID MEASURES

First aid measures

- General advice** Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
- Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.
- Eye contact** Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.
- Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
- Ingestion** Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
- Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media** CAUTION: Use of water spray when fighting fire may be inefficient.
- Specific hazards arising from the chemical** No information available.
- Hazardous Products** **Combustion** Carbon oxides.
- Explosion Data**
- Sensitivity to Impact** **Mechanical** None.
- Sensitivity to Static Discharge** None.
- Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES



Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas.

Other Information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand protection Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands



before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state	Solid
Appearance	Pouch
Odor	Insipidness
Color	Silver
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
Water Solubility	Insoluble in water		
Solubility(ies)	No data available	None known	
Partition coefficient:	No data available	None known	
n-octanol/water			
Autoignition temperature	No data available	None known	

Other Information

None

SECTION 10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous Polymerization	Hazardous polymerization does not occur.
Conditions to avoid	None known based on information supplied.
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.
Hazardous Decomposition Products	Carbon oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Severely irritating to eyes. Causes serious eye damage. May cause burns. May cause irreversible damage to eyes. (based on components).
Skin contact	Specific test data for the substance or mixture is not available. Causes skin



irritation. (based on components).

Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Skin corrosion/irritation	Classification based on data available for ingredients. Irritating to skin.
Respiratory or skin sensitization	No information available.
Carcinogenicity	Classification based on data available for ingredients. Contains a known or suspected carcinogen.
Reproductive toxicity	No information available.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	No information available.
Persistence and Degradability	No information available.
Bioaccumulation	No information available.
Component Information	No information available.
Mobility	No information available.
Other adverse effects	No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

SECTION 14. TRANSPORT INFORMATION

Transport:	Lithium ion batteries alone transport
Proper Shipping name:	Lithium ion batteries (including lithium ion polymer batteries)
UN No.:	UN 3480
Label for conveyance:	Li-ion battery handling label, Class 9 hazard label, Cargo aircraft only label (By air)
Certification for Safe Transport of Chemical Goods:	/



Packaging Group: N/A

Marine pollutant: No

Ems No.: F-A, S-I

Packing requirements: The goods shall be complied with the requirements of Section IB of PI 965 of the 62nd edition DGR Manual of IATA or special provision188 of IMDG CODE (Amdt. 39-18) Edition, including the passing of the UN38.3 test.

Transport: Lithium ion batteries packed with equipment transport

Proper Shipping name: Lithium ion batteries packed with equipment (including lithium ion polymer batteries)

UN No.: UN 3481

Label for conveyance: Li-ion battery handling label

Certification for Safe Transport of Chemical Goods: /

Packaging Group: N/A

Marine pollutant: No

Ems No.: F-A, S-I

Packing requirements: The goods shall be complied with the requirements of Section II of PI 966 of the 62nd edition DGR Manual of IATA or special provision188 of IMDG CODE (Amdt. 39-18) Edition, including the passing of the UN38.3 test.

Transport: Lithium ion batteries contained in equipment transport

Proper Shipping name: Lithium ion batteries contained in equipment (including lithium ion polymer batteries)

UN No.: UN 3481

Label for conveyance: Li-ion battery handling label

Certification for Safe Transport of Chemical Goods: /

Packaging Group: N/A

Marine pollutant: No

Ems No.: F-A, S-I

Packing requirements: The goods shall be complied with the requirements of Section II of PI 967 of the 62nd edition DGR Manual of IATA or special provision188 of IMDG CODE (Amdt. 39-18) Edition, including the passing of the UN38.3 test.

SECTION 15. REGULATORY INFORMATION

OSHA - Occupational Safety and Health Act
 RTDG - Recommendations on the transport of dangerous goods manual
 DGR - Dangerous Goods Regulations





IMDG - International Maritime Dangerous Goods

CFR - Code of Federal Regulations

TISFDG - Technical Instructions for the Safe Transport of Dangerous Goods

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

SECTION 16. OTHER INFORMATION

Disclaimer

This file is only effective to the batteries provided by Shenzhen BatterPower Battery CO.,LTD. The commissioner provides the composition information of batteries, and promises its integrity and accuracy. Users should read this file carefully, and use the batteries in correct method. CESI (Guangzhou) Standards & Testing Institute Co., Ltd doesn't assume responsibility for any damage or loss because of misuse of batteries.

NOTES

1. The test report shall not be reproduced except in full without the written approval of the Laboratory.
2. The results presented in this report is only valid to the samples.;

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